

Unit of Measure: English

Structure File Number: 7706871

Sufficiency Rating: 094.1

Bridge Inventory Information

Inventory Bridge Number: SUM 00082 0000

ROUTE CARRIED BY STRUCTURE CUY RIV-B&O RR-BIKE PATH

Report Date: 05-01-2012 BM-191 Page: 1 of 2

BR. Type: CONCRETE/ARCH/DECK

Date of Last Inventory Update: 4/30/2012

District: 04

County: SUMMIT

(101) Location: 3.43 MI W OF SR 8

(102) Facility Carried: SR 82

(2) FIPS Code: SAGAMORE HILLS TWP

(103) Route On Bridge: STATE (ODOT)

(104) Route Under Bridge: NON-HIGHWAY

(9) Direction of Traffic: 2-WAY TRAFFIC

(10) Temporary: N

(11) Truck Network: N

(12) Parallel: N

(100) Type Serv: (On): HIGHWAY

(Under): RAILROAD/WATERWAY

Inventory Route Data

(3) Route On/Under: ROUTE CARRIED BY STRUCTU

Route No: 00082

Dir:

Des: MAINLINE

Pref:

Hwy Sys: STATE HIGHWAY

(4) Feature Inspected: CUY RIV-B&O RR-BIKE PATH

(5) County: SUM

Mileage: 0000

Special Desig:

(6)Avg. Daily Traffic(ADT): 13,610

(7) ADT Year: 2010

(8) Truck Traf: 430

(14) NHS: NON-NHS BRG E

(15) Corridor: N

(16) Functional Class: MINOR ARTERIAL-URBAN

(19) Strahnt: Not Applicable (Not a Strahnet Brid

(63) Main Spans Number: 5

Type: CONCRETE/ARCH/DECK

Approach Spans Number: 2

Type: PRESTRESSED CONCRETE/BOX BEAM/SIMPLE

Total Spans: 7

(65) Max Span: 181 Ft

(66) Overall Leng: 1,133 Ft

(70) Substructure

(71) Foundation and Scour Information

Abut-Rear

Matl: CONCRETE A

Type: SOLID WALL

Fnd: SPREAD FOOTING

Abut-Fwd

Matl: CONCRETE A

Type: SOLID WALL

Fnd: SPREAD FOOTING

Pier-Pred

Matl: CONCRETE

Type: GRAVITY

Fnd: SPREAD FOOTING

Pier-Other

Matl: NONE

Type: NONE

Fnd: UNKNOWN (OR OLDER BRIDGE BEING ADDED)

Pier-Other

Matl: NONE

Type: NONE

Fnd: UNKNOWN (OR OLDER BRIDGE BEING ADDED)

No of Piers Predominate: 14

Other: NN

Other: NN

(86) Stream Velocity: UUU

(74) Scour: COUNTERMEAS INSTALLED TO CORRECT PROBLEM

(189) Dive: N Freq: 0

Probe: Y Freq: 12

(75) Chan Prot: RIP RAP (DUMPED ROCK OR ROCK)

(189) Date of last Dive Insp:

(152) Drainage Area: UUU Sq Mi

Intersected Route Data

(22) Route On/Under:

Route No:

Dir:

Des:

Pref:

Hwy Sys:

(23) Feature Inspected:

(24) County:

Mileage:

Special Desig:

(25)Avg. Daily Traffic(ADT):

(26) ADT Year:

(27) Truck Traf:

(28) NHS: -

(29) Corridor: N

(30) Functional Class:

(36) Strahnt:

(156) Min. Horiz Under Clear:

NC: 0.0 Ft

Card: 0.0 Ft

(157) Prac Max Vrt Under Clear:

0.0 Ft

(77) Min Vert Under Clear:

NC: 0.0 Ft

Card: 0.0 Ft

(78) Min Lat Under Clear:

NC: 9999.9/9999.9 Ft

Card: 9999.9/9999.9 Ft

Clearance On the Bridge

(154) Min. Hriz on Bridge:

NC: 0.0

Card: 40.0 Ft

(155) Prac Max Vert On Brq:

9999.9 Ft

(67) Min Vrt Clr On Brg:

NC: 0.0

Card: 9999.9 Ft

(80) Min Latl Clr:

NC: 0.0/0.0 Ft

Card: 0.0/0.0 Ft

(81) Vrt Clr Lft:

0.0 Ft

Load Rating Information

(48) Design Load: HS/20-44 & ALTERNATE MILITARY LOADING

Opr Rat Fact: 1.250 LD: HS20 LOADING

Inv Rat Fact: 1.000 LD: HS20 LOADING

(83) Ohio Percent of Legal Load: 150

Year of Rating: 1992

(84) Analysis: WORKING STRESS (WS)

(85) Rate Soft: BARS

Analysis on Bars: WRKG STRESS ANALYSIS

PE#: 0

(88) Waterway Adequacy: 7

(89) Approach Alignment: 7

Calc Gen Appraisal: 7

Calc Deck Geometry: 5

Calc Underclearance: N

Structure Information

(38) Bypass Length: 04 Miles

(39) Latitude: 41 Deg 19.3 Min

Longitude: 81 Deg 35.3 Min

(40) Toll: ON FREE ROAD

(41) Date Built: 7/1/1931

(42) Major Rehabilitation: 1/1/1989

(43) No. Lanes On: 2

No. Lanes Under: 0

(44) Horiz Curve:

(45) Skew: 0 Deg

(49) App. Rdw Width: 40 Ft

(50) Brg. Rdw Width: 40.0 Ft

(51) Deck Width: 43.5 Ft

Deck Area: 49288 Sq. Ft

(52) Median Type: NONE/NON BARRIER/NO JOINT

(53) Bridge Median: NO MEDIAN

(54) Sidewalks:

(left) 0.0 Ft

(right) 0.0 Ft

(55) Type Curb or Sidewalks:

(Left) Matl: NONE

Type: NONE

(Right) Matl: NONE

Type: NONE

(56) Flared: N

(57) Composite: U - NOT APPLICABLE

(58) Railing: REINFORCED CONCRETE PARAPET

(59) Deck Drainage: SCUPPERS & DWNSPPTS

(60) Deck Type: REINF CONCRT (PRESTRSD, PRECAST

(61) Deck Protection: External: NONE

Internal: NONE

(62) Wearing Surface: INTEGRAL CONCRETE (MONOLITHIC)

Thickness: 1.0 in

(119) Date of Wearing Surface: 7/1/1989

Slope Protection: RIP RAP (DUMPED ROCK)

Approach Information

(109) Approach Guardrail: STEEL BEAM

(110) Approach Pavement: BITUMINOUS

(111) Grade: GOOD

Culvert Information

(131) Culvert Type: NONE/NOT APPLICBLE

(127) Length: 0.0 Ft

(129) Depth of Fill: 0.0 Ft

(130) Headwalls: NONE

General Information

(121) Main Member: PRESTRESSED CONCRETE BOX BEAM

(122) Moment Plate: NOT APPLICABLE

(169) Expansion Joint: COMPRESSION SEAL

(124) Bearing Devices: ELASTOMERIC (PLAIN)

(126) Navigation: Control-N

Vert Clr: 0.0 Ft

Horiz Clear: 0.0 Ft

(193) Spec Insp: N

Freq: 0

Date:

(188) Fracture Critical Insp: N

Freq: 0

Date:

(138) Long Member: TWO CONCRETE ARCHES

(135) Hinges: NOT APPLICABLE

(141) Structural Steel Memb: NONE

(139) Framing: NONE

Railing: N

Paint: NONE

Pay Wt: 0 pounds

Prime Loc: NONE

Bridge Dedicated Name: BRECKSVILLE-NORTHFIELD H LEVEL

General Information (Continued)				Original Plans Information			
(---) Hist Significance: NATIONAL HISTORIC REGISTER (69) NBIS: Y				(142) Fabricator:			
(---) Hist Builder: OHIO STATE HIGHWAY DEPARTMENT Hist Build Year: 1931				(143) Contractor:			
(69) Hist Type: RIBBED				(144) Ohio Original Construction Project No: 000130			
(161) Special Features (see below):				(---) Microfilm Reel: CUY010			
(105) Border Bridge State: Resp: %(106) SFN:				(151) Standard Drawing:			
Proposed Improvements		Programming Info		Aperture Cards: Orig: N Repair: Y Fabr: Y			
(90) Type Work: 31 - BRG/STR REPL--SUBSTD LD CAP OR RDW GE		PID Number: 12747		Plan Information Available: 1 PLAN INFORMATION AVAILABLE			
		PID Status: CANCEL					
		PID Date:					
(90) Length: 1174.0 Ft				(153) Repair Projects:			
(90) Bridge Cost (\$1000s): 4782				1) 780792 / 044 2) 880789 / 004 3) / MMM			
(90) Roadway Cost (\$1000s): 405				4) / 5) /			
(90) Total Project Cost (\$1000s): 5187		(90) Year: 1988					
(91) Future ADT (On Bridge): 18891		(92) Year of Future ADT: 2033					
Inspection Summary		(I-69) Survey Items		Utilities		Special Features	
(I-8) Deck: 5	Railings: MEETS CURRENT STANDARDS	(46) Electric: Y	(161) Lighting: Y				
(I-32) Superstructure: 8	Transitions: MEETS CURRENT STANDARDS	Gas: N	Fencing: N				
(I-42) Substructure: 7	Guardrail: MEETS CURRENT STANDARDS	Sanitary Sewer: N	Glare-Screen: N				
(I-50) Culvert:	Rail Ends: MEETS CURRENT STANDARDS	Telephone: N	Splash-Guard: N				
(I-54) Channel: 8	In Depth: MEETS CURRENT STANDARDS	TV Cable: N	Catwalks: N				
(I-60) Approaches: 5	Fracture Critical: NONE N/A	Water: N	Other-Feat: N				
(I-66) General Appraisal: 7	Scour Critical: NONE N/A	Other: N	(184) Signs-On: N				
(I-66) Operational Status: A	Critical Findings: NONE N/A		Signs-Under N				
Inspection Date: 9/14/2011	Insp. Update Date: 9/22/2011		(162) Fence-Ht 0.0				
(94) Desig Insp Freq 12 Months			(163) Noise Barr N				
SFNs Replacing this retired bridge: -		INV Field Bridge Marker: SUM - 00082 - 0000 -					
SFNs That were replaced by this bridge: -		INT Field Bridge Marker: - - -					
This bridge was retired and copied to:							
The bridge was copied from:							
(95) Insp: OHIO TRAN DEPT	2nd: NONE	3rd: NONE					
(96) Maint: OHIO TRAN DEPT	2nd: NONE	3rd: NONE					
(97) Routine: OHIO TRAN DEPT	2nd: NONE	3rd: NONE					

PONTIS CoRe elements and Conditions States

Elem No.	CoRe Element Description	Total Quantity	Unit Meas.	Condition State Percents(*)				
				1	2	3	4	5
12	CONCRETE DECK - BARE	1		0	0	0	0	0
144	REINFORCED CONC ARCH	2266		0	0	0	0	0
217	OTHER ABUTMENT	87		0	0	0	0	0
302	COMPRESSION JOINT SEAL	87		0	0	0	0	0
321	REINFORCED CONCRETE APPROACH SLAB	2		0	0	0	0	0
331	CONCRETE BRIDGE RAILING	2266		0	0	0	0	0

(\*) Percentages should add to 100%